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IDEA-0904-68

Copy 8 of 8

2 December 1968

MEMORANDUM FOR THE RECORD

SUBJECT: Status of Iris II Optical Bar Camera

1. On Tuesday, 19 November 1968, the writer visited Itek, Lexington, Massachusetts, to witness test procedures involved in acceptance of prototype Iris II camera, the first of 13 such cameras being produced under Itek 3301 contract.

2. While a full range of acceptance tests are conducted on each camera, including power consumption, exposure control, air consumption, vibration and V/H sensor, the final critical test is a dynamic resolution test conducted under simulated flight conditions in the vacuum/temperature chamber by the quality assurance group at the Lexington facility. Resolution targets are photographed ten times at each of 5 positions and the targets averaged for both the in-flight direction and the cross track direction. All

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3. The tests conducted on November 26 indicated that the first camera would exceed these requirements.

4. During the week ending December 7, the camera will be painted, cleaned up and readied for shipment on December 9 via project aircraft. Three boxes of spares and support gear will accompany the camera to Detachment G.

5. Assuming that the camera arrives at Detachment G on 10 December, the balance of the week will be devoted to ground installation, fit and function tests, ready for first flight on 16 December, or before.

6. The first four cameras delivered on this contract will be accepted on the basis of flight tests conducted at Detachment G under Specification No. 8011-E-307. The overall objective of these tests is to establish the adequacy of factory acceptance testing and the secondary objective is to establish a correlation between flight test resolution and laboratory dynamic resolution.

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SSD/R&D/OSA [REDACTED]:bjg

Distribution:

- Cy 1 - DD/SA
- 2 - D/R&D/OSA
- 3 - D/M/OSA
- 4 - D/O/OSA
- 5 - CMD/OSA [REDACTED]
- 6 - SSD/R&D/OSA
- 7 - SSD/R&D Chrono
- 8 - RB/OSA

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